

# كهرباء لبنان "مؤسسة عامة"

ELECTRICITE DU LIBAN  
"Etablissement Public"

شارع النهر - بيروت - تلفون : 01-442720  
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رقم المحفوظات  
رقم الصادر

بيروت في: ٢٠٢٦/٢/٢٠

الموضوع: المناقصة العمومية رقم م.ع.٢٥/٧٨ - تشغيل وصيانة معمل دير عمار والزهراني لمدة خمس سنوات - دفعة ثالثة من الأجوبة على طلبات استيضاح واردة من عارضين محتملين حول دفتر الشروط.

المراجع: - الفقرة ٨ من تعليمات لمقدمي العروض من دفتر الشروط.  
- المادة ٢١ من قانون الشراء العام.

بالإشارة الى الموضوع أعلاه،

وحيث ورد الى مؤسسة كهرباء لبنان عدة طلبات استيضاح خطية من عارضين محتملين حول دفتر الشروط العائد للمناقصة العمومية رقم م.ع.٢٥/٧٨ العائدة لتشغيل وصيانة معمل دير عمار والزهراني لمدة خمس سنوات، المعلن عنها على موقع هيئة الشراء العام تحت الرقم ١٠٢٢٧ بتاريخ ١٥/١١/٢٠٢٥،

لذلك، تجدون ربطاً الأجوبة (الايضاحات) على طلبات الاستيضاح الأنفة الذكر، في المستند المرفق المؤلف من خمسة عشر صفحة (١٥) مطبوع على وجهها Recto متضمنة ٣٤ سؤالاً مع الأجوبة لكل منها في الصفحات الـ ١٢ الأولى، أما الصفحة ١٣ فتتضمن لائحة بمحتويات القرص المدمج CD المرفق وصفحتين (١٤ و ١٥) تعودان لنماذج مرفقة بمجموعة الأسئلة.

تجدد الإشارة الى أنه تمّ نشر هذه الايضاحات على موقع هيئة الشراء العام [www.ppa.gov.lb](http://www.ppa.gov.lb) (اعلان رقم ٢٠٢٥/١٠٢٢٧) حيث سبق وتمّ نشر دفتر الشروط، كما نشير إلى أنه سيتمّ نشر وابلغ الاجوبة على أية طلبات استيضاح خطية قد ترد حول دفتر الشروط ضمن المهلة المحددة لذلك في التعليمات لمقدمي العروض من دفتر الشروط، تباعاً ضمن المهلة المحددة لذلك.

وتفضلوا بقبول الاحترام

رئيس مجلس الإدارة  
المدير العام  
كمال الحايك



الع.ب.  
فهد

مرفق ربطاً مستند من ١٣+٢ صفحات Recto وقرص مدمج CD.

إيضاحات مديرتي الإنتاج والدراسات حول بعض الأسئلة المقدمة من قبل بعض الشركات التي اشترت دفتر الشروط العائد لتشغيل وصيانة معمل دير عمار والزهراني لمدة خمس سنوات

(٣)

**Q1:** Based on our experience, certain scope items may not be fully captured within the BOQ or the due diligence documentation. In such cases, and where these items become necessary during execution, kindly clarify the mechanism for accepting and approving variation orders, particularly given that variations are not typically accepted.

**A1:** Please refer to tender document mainly Clause "2.5" of Section V: Schedule of Requirements, in which it is clearly mentioned the following:

*" Based on the Due Diligence that was updated by the Owner in November 2024 as shown in Annexes 8.1 & 8.2, and following the site visits in the bidding process, the Operator shall satisfy Himself to repair all the defects in both Power Plants during the Grace period and in accordance with all Contract requirements. All the cost of reparations is included in the Contract Price.*

*With taking over the Owner's Facilities, the Operator assumes the responsibility for all identified Deficiencies and Defects in Annexes 8.1 & 8.2, including updates based on latest developments, and shall correct at his own expense any damages or deficiencies that occur from that point forward."*

Any variation orders to the contract should respect the terms and conditions of the Tender Documents.

**Q2:** Please specify your intended start date for the contract.

**A2:** Starting of the contract depends on the bidding process, expected 9/1/2027.

**Q3:** The projected timelines for major and minor overhauls of the Gas Turbine and Steam Turbine are provided. We note discrepancies in the start and end dates, as well as different durations between the plants. For example, Deir Amar outages are from 09/01/2027 to 08/01/2032 while Zahrani outages are from 04/04/2026 to 27/12/2030. There is a significant gap between the execution times of both plants. Please confirm the accuracy of the listed timelines and clarify the assumptions or methodology used to establish these projections.

**A3:** The actual projected timelines for major and minor overhauls of the Gas Turbine and Steam Turbine should reflect the expected outages during the actual five years of the contract according to the actual EOH for each unit, and this is related also to the start date of the contract mentioned in the above answer A2.

**Q4:** Annexes 8.1 and 8.2 provide a "Maintenance Plan since LTE Upgrade" [pgs 16-17], covering the period 2021 to 2027 as a pre-prepared projection. Please confirm the maintenance dates for the period 2021 to 2025 that you want to be used as baseline for future projections.

**A4:** Please find hereby attached the scheduled outages done for the main units (GTs &ST) for both power plants done for the period 2021 – 2025.

**Q5:** The RCIE for the Gas Turbines is included within the BOQ with certain spare parts requested in the BOQ. However, the expected satisfactory scope of works is not mentioned. Please clarify the scope of services expected from OEM as well as the complete list of spare parts required to ensure that all necessary components are accurately reflected in the BOQ and maintenance planning.

**A5:** Please refer to Article “2.10.2” of Section V: Schedule of Requirements, in which it is clearly mentioned the following:

*“ Minimum scope of scheduled overhauls for main devices is presented in the attached table (TAB 3). However, the OEM expert should set the necessary scope of work before each inspection based on the latest OEM recommendations.*

*The Rotor and Casing Inspection Evaluation (RCIE) for Gas turbines will be carried out at the first due major Overhaul for each unit in the presence and under supervision of the pertinent OEM. “*

Since the RCIE for Gas turbines will be carried out at the first due major Overhaul for each unit, the scope of work of each Major Overhaul including the RCIE should be based on the latest OEM recommendations.

The Capital Spare parts requested in BoQ for RCIE are based on the OEM recommendation during the preparation of the Tender Document. Remaining Spare Parts, based on the latest OEM recommendations, for all Major Overhauls / RCIE mentioned in BoQ should be supplied by the Operator accordingly.

**Q6:** Two due diligence documents for Annexes 8.1 and 8.2 are provided, dated 12/02/2021 and 25/11/2024. They appear largely similar with only minor changes. Please confirm which of the provided annexes accurately reflect all technical data required up to 26/2/2026.

**A6:** The Owner (EDL) updated the due diligence done year 2021, and submit to the bidder the updated copies of November 2024.

Moreover, and in order to have more clearly figure in relation to the Operator’s obligations of Article “2.5- Survey of Installations” of “Section V: Schedule of Requirements” of the Tender Document for Operation and Maintenance of Deir Amar and Zahrani CCPPs, please refer the tables of the previous clarifications (clarification 2).

**Q7:** In the RCIE spare parts listed in the BOQ: 1 set is requested for Deir Amar and 2 sets for Zahrani. However, for the Compressor Discs (Stages 13-15), Middle Hollow Shaft, and Turbine Discs (Stages 1-4): 1 set is requested for Deir Amar and 1 set for Zahrani. Kindly confirm whether this is intended and clarify whether both planned major overhauls will require these components, or if one set is considered sufficient in accordance with the overhaul strategy you have.

**A7:** According to the OEM recommendation, one set of the items in Q7 mentioned above is needed during for RCIE in both power plant, since the old items will be sent to the OEM



workshop in order to undergo special examinations. The Owner (EDL) decided to request one set for each power plant to avoid any risk of long-time delivery, in case any of these items fail during the OEM special examinations.

**Q8:** Under NSSF regulations, 85% of medical claims are covered by the NSSF, with the remaining 15% covered through insurance policies. However, since 2019, this arrangement has not been applied in practice, and employers have increased their insurance policies to cover 100% of medical costs.

Could you please clarify whether there has been any formal coordination or communication between EDL and the NSSF regarding the applicable medical coverage framework moving forward, and whether the tender assumptions are based on a return to the 85% NSSF / 15% insurance model, or the continuation of full medical coverage by the Operator?

**A8:** The Owner (EDL) respects the NSSF regulations and follows these regulations, the operator should also respect and follow these regulation

**Q9:** In reference to public statements by H.E Ministry of Energy, indicating funding constraints for EDL and that the Lebanese Public will no longer endure any public debt arising from EDL's financial obligations; could you please clarify how payment obligations to the Operator will be secured throughout the Operation and Maintenance contract term? If EDL is unable to meet its payment obligations, kindly clarify which entity will assume responsibility for payments, and what payment security mechanisms are in place.

**A9:** The Owner (EDL) will respect the content of the Tender document in this concern, mainly Clause "14" of section II: Bid Data Scheet (BDS), page 39, and Clause "7" of section VI: Conditions of Contract, page 218, of this Tender Document.

**Q10: RCIE Capital Spare Parts - BOQ Tabs 3A & 3B**

The spare parts list requested under BOQ Tabs 3A and 3B does not reflect the full list of capital spare parts recommended by the OEM for the relevant major overhaul interventions. Additionally, for item 33.6 DA & 33.6 ZA "Turbine Ring 1 (I Ring), 2(L• Ring), 3 (L-Ring), 4 (X-Ring)" OEM recommendation is machining rather than replacement.

The current BOQ and due diligence does not clearly reflect the OEM scope for the RCIE Major overhaul. Therefore, Alignment with the OEM-recommended scope would ensure technical completeness and allow accurate consistency among all tenderers.

**A10:** Please refer to the Answers "A5" and "A7" mentioned above.

**Q11: Semipol SFC /SEE - Annex 8.2 (Item E32)**

Annex 8.2 indicates that all installed SFC/SEE systems are to be upgraded in accordance with recent OEM recommendations, noting that the existing SEMIPOL D2/D3 SFC/SEE systems have been discontinued and that spare parts are no longer available.

Currently, one complete SFC/SEE upgrade set has already been ordered by the current Operator, and the remaining quantity required is two additional units. This item should



therefore be revised to accurately reflect the remaining quantity to be procured and the corresponding spare parts scope.

**A11:** The requirements of Annexes 8.1 & 8.2 in this regard are still needed except the following, that will be supplied by the current operator:

Nb.	Description	Qty.
1	<b>1 x SFC/SEE Controller Upgrade incl. 1 x De-Excitation Breaker Replacement for Zahrani Power Plant, including:</b> Project Management. Engineering, Test / FAT Hardware / Licenses	1
2	<b>1 x SFC/SEE Controller Upgrade incl. 1 x De-Excitation Breaker Replacement for Deir Amar Power Plant, including:</b> Project Management. Engineering, Test / FAT Hardware / Licenses	1

**Q12: GT Generator Rotors - Annex 8.2 (Item E16-1)**

Annex 8.2 (Item E16-1) indicates that two Generator Rotors for GT1 are required, including the supply of one new rotor and refurbishment/repair of the existing rotor. This item requires revision, as the current wording combines both procurement of a new rotor and refurbishment of an existing unit for the same GT without clearly defining the necessity of the item. Clarification and technical reassessment of this item would ensure consistency among all tenderers.

**A12:** The spare rotor has been installed on GT1 at Zahrani power plant during the previous Major Overhaul, the new Operator should supply new rotor and spare one for both power plants.

The old rotor removed from GT1 should be refurbishment/repair by the OEM in order to be used for GT2 at Zahrani power plant during the next major overhaul.

**Q13: Projected Inspection Schedule - Tab 1**

The projected inspection timeline for main devices appears not fully aligned between the two plants. The tender indicates the inspection period for Deir Amar as 09/01/2027 to 08/01/2032 and for Zahrani as 04/04/2026 to 27/12/2030.

Accurate planning of inspection intervals, major overhaul activities, and OEM-driven intervention schedules is directly dependent on a clearly defined Contract commencement date. As the inspection timelines are based on projected Equivalent Operating Hours (EOH) over the five-year contract period, confirmation of a fixed start date is required to ensure accurate alignment of maintenance cycles, inspection planning, and technical assumptions.

**A13:** Please refer to the Answer "A3" mentioned above.

**Q14: Contractual Clarifications**

In Page 163 of the tender book, Clause 2.5 - Survey of Installation states *"With taking over the Owner's Facilities, the Operator assumes the responsibility for all identified Deficiencies and Defects in Annexes 8.1 & 8.2, including updates based on latest developments, and shall correct at his own expense any damages or deficiencies that occur from that point forward."*

Kindly clarify the intended scope of this clause, particularly with respect to:

- Whether the operator is expected to assume responsibility for pre-existing deficiencies and defects identified in Annex 8.1 & 8.2;
- What is meant by "updates based on latest developments"; and
- The distinction between pre-existing conditions and damages occurring after takeover.

**A14:** Please abide by the requirements the Tender Documents in this regard, the requirements of the Annexes 8.1 & 8.2, and related clarification accordingly.

**Q15:** Annex 8.1, BOP 22 specifies enhancing the CCTV system, including the requirement to provide dedicated staff to operate and maintain the system. Please clarify whether this staffing requirement is already reflected within the BOQ, or if the personnel are considered additional/separate from the BOQ staff listed in TAB 1?

**A15:** Please refer to answer "A5" of the previous clarification (2).

**Q16:** The technical data in Annex 8.1 and 8.2 is provided up to 2023. Pricing of any services will depend on actual updated data. Please clarify whether the 2023 basis should be used.

**A16:** The Owner (EDL) provided all bidders equally with the maximum possible data, via: the content of the Tender Documents, Site visit, and the Answer to the clarifications requested by the Bidders.

**Q17:** Please clarify whether the provided Annexes (4.1 and 4.2) have all the required and updated spare parts with no obsolete items.

**A17:** Since Annexes 4.1 and 4.2 were prepared during the preparation of the Tender Document, minor deviation might be occurring due warehouses' movement during the period of the bidding process. This should be taken into consideration by the bidders.

**Q18:** Please clarify whether the interval for Minor Overhauls (4000 EOH) is final or whether the interval can change based on OEM recommendations.

**A18:** The operator's obligations in these regards are the quantities mentioned in BoQ, any deviations to these quantities should be handled as per the Terms and conditions of the Tender Documents accordingly.

**Q19:** Kindly find attached clarifications directly related to due diligence Annex 8.1 and 8.2 attached to this letter.



**Clarification on Annex 8.1:**

Item	Questions	Answers
M 7	Does the scope mean a whole system repiping and replacement of all the valves of the auxiliary header?	Replacements as mentioned in the Action to be taken.
M 8	Does that mean all the pipes & tank or just ones with leakages need to be replaced	Replacements as mentioned in the Action to be taken.
M 20	Is this item finalized or to check with OEM for their recommendation?	The OEM recommendations is required as mentioned in the Action to be taken.
BOP 22	to be clarified if 200 pt cameras are in request, are there set points requested or will that need to be studied separately? Is there a particular software that is requested that will have no interruptions? does the UPS system mean a separate new electrical UPS system for all cameras? and outdoor cameras? where does the wiring go? do you want it over / under ground? does it have its own battery system? is there a place to have the batteries for the whole cctv to cover all the plant and the wiring? the redundant saving means two separate servers? does the history saving need to be 30 days for both?	- A Study or plan is required to be performed and submitted to the owner for approval in order to install the 200 cameras (as minimum) to monitor all the critical locations in the plant. - A study should be made to benefit in a proper and safe manner from the existing emergency supply in the plant. - The wiring should be done in a professional and secure manner in compliance with the adopted standards in the plant. - The design and software should be reliable to store 30 days and to be user friendly and have the suitable functionalities.
BOP 32	Does the modification require OEM approval? Is it expected to be integrated in DCS?	The OEM approval should comply with the obligations of O&M contract concerning this system. The monitoring of this system via DCS is very important.

**Clarification on Annex 8.2:**

Item	Questions	Answers
M 22	Is there any specific reason to replace the latest type?	Please abide by the requirements the "Action to be taken of Nov 2024" of Annex 8.2, in order to improve the GTs energy loses.
M 52	The description does not match the Action to be taken, the variable speed drive is not related	Please abide by the requirements the "Action to be taken of Nov 2024" of Annex 8.2.

	with efficiency, please clarify the needed scope?	
E 9	Repair or Replace?	Replace the existing FMS to be connected and monitored in the power plant T3000 server.
BOP 18	This item is currently part of the existing operator.	If the current operator perform his obligations in this regard, then this item will be deleted.
BOP 19	This item is currently part of the existing operator.	If the current operator perform his obligations in this regard, then this item will be deleted.

**Q 20: Financial Clarifications**

Given the ongoing World Bank financing of the energy sector in Lebanon, could you kindly clarify whether EDL's O&M-related costs are included within this financing, and whether such funding provides payment security for the Operator during the contract term?

Will EDL offer any assistance or support through payment guarantees, particularly considering the current banking conditions, whereby international banks require up to 110% cash collateral to issue bank guarantees to Lebanon, and other non-cash collateral is subject to higher coefficients.

**A 20:** The Owner (EDL) cannot interfere with banking rules and regulation, the Owner will respect the content of the Tender document in this concern, mainly Clause "14" of section II: Bid Data Scheet (BDS), page 39, and Clause "7" of section VI: Conditions of Contract, page 218, of this Tender Document.

**Q 21:** Section I: Instructions to Bidders, Clause 10.2 Documents Constituting the Bid (Page 10):

يجب أن يتضمن العرض الإداري والفني ما يلي:

ب - تفويض رسمي حسب الأصول، يثبت صفة الشخص (الأشخاص) الذين يوقعون على العرض وسلطة التوقيع عليه وفقاً للفقرة (١٩،٣) من التعليمات للعارضين.

أ - يرجى إرفاق نموذج معتمد للتفويض الرسمي.

التوقيع الرسمي يتطلب التصديق من غرفة التجارة والصناعة (حسب يلزم)، وزارة خارجية دولة منشأ مقدم العرض، سفارة الدولة اللبنانية في دولة منشأ مقدم العرض، ووزارة خارجية الدولة اللبنانية.

ب- الرجاء التأكيد أن التوقيعات أعلاه هي "حسب الأصول" حسب المذكور في دفتر الشروط.

**A 21:**

أ - لا يوجد نموذج معتمد للتفويض الرسمي.

ب- في حال كان العرض غير لبناني (شركات أجنبية) التصديق من الجهات الواردة في الفقرة "أ" من السؤال "Q 21" أعلاه هي "حسب الأصول" حسب المذكور في دفتر الشروط.

**Q 22:** Section IV: Bidding Forms, Attachment No. (1) to Form (Q3) (Page 85):

يجب أن تكون جميع الوثائق سارية المفعول وأصلية وموقعة من منشئها من الإدارات الرسمية والمراجع المختصة.  
الرجاء تأكيد إمكانية تقديم نسخ مصدقة عن هذه الوثائق بدلاً عن الأصل.

**A 22:**

يمكن لأي عارض تقديم نسخ مصدقة وفق الأصول للمرفق رقم ١ العائد للنموذج (Q3) صفحة "٨٥" أعلاه، كما أنه في حال عدم إمكانية حصوله على نسخة مصدقة وفقاً للأصول، يمكن لأي عارض في لديه نسخة أصلية مصدقة وفق الأصول لهذه المستندات إبرازها قبل مهلة تقديم العروض لمصلحة التموين والمشتريات في مؤسسة كهرباء لبنان للتأكد منها ووضع ختمها "نسخة طبق الأصل" على النسخة المنوي تقديمها كمستند معتمد ومقبول للعارض.

**Q 23:** Section IV: Bidding Forms, Form (Q4) - Employee Qualifications (Page 89-90):

Further to the site visit and pre-tender meeting, and due to the specialty and criticality of works at both power plants, bidders were advised regarding the importance of retaining the existing manpower after the award of the contract.

Considering the above, and while bidders are required to submit the CV's of the qualified personnel as mentioned in section IV form Q4, we appreciate support from EDL to provide the CV's of the existing personnel or the list of recommended manpower and their respective positions and power plant experience to be included with the tender submission.

**A 23:** Since retaining the existing manpower after the award of the contract, as mentioned in question "Q23" above, is not contractual obligation as per the conditions of the Tender Document, the owner's conditions in this concern are only the requirement of the Tender Documents.

**Q 24:** Section IV: Bidding Forms, Tender Submission Form (Page 70):

ورد في القسم الرابع من نماذج العرض خطأ حيث تم ذكر تاريخ انتهاء صلاحية العرض :  
صلاحية العرض: تستمر صلاحية عرضنا حتى تاريخ الخميس ٢٠٢٦/٢/١٩ وسيبقى عرضنا هذا ملزماً لنا طوال فترة الصلاحية.  
الرجاء تصحيح الخطأ وتسليمنا نسخة من دون ذكر تاريخ انتهاء صلاحية العرض.

**A24:** Please refer to the Clause "17" Page "15" of Section I: Instruction to Bidders (ITB), and to the Clause "17" Page "43" of Section II: Bid Data Sheet (BDS).

**Q 25:** Section IV: Bidding Forms, Table 7A (Page 126):

ورد في الجدول رقم 7A خطأ حيث ذكر :

A- For Zahrani Power Plant

(Hereinafter called "the Contract Price") for Operation and Maintenance of facilities of Deir Amar combined cycle power plant

في حين ان الجدول هو للأعمال في محطة الزهراني.

الرجاء تصحيح الخطأ وتسليمنا النموذج المصحح.

**A 25:** Please find hereby attached the correct copy of page 126, Table 7A, of Section IV: Bidding Forms, taking into consideration the above -mentioned typing mistake of "Q25".

**Q 26:** Section IV: Bidding Forms, Table 7B (Page 144):

ورد في الجدول رقم 7B خطأ في الجمع حيث تم جمع الجدول رقم 1A الى 6A.

الرجاء تصحيح الخطأ وتسليمنا الجدول رقم 7B مجموع الجداول 1B الى 6B.

**A 25:** Please find hereby attached the correct copy of page 144, Table 7B, of Section IV: Bidding Forms, taking into consideration the above -mentioned typing mistake of "Q26".

**Q 26:** Section IV: Bidding Forms, Form of Tender (Page 109):

الرجاء التأكيد ان البند (a) سعر العرض الاجمالي قبل الحسمومات" والبند (e) الضريبة على القيمة المضافة" هو مجموع الجداول 7A، 7B، 9A، 9B.

**A 26 :** TAB 9A and TAB 9B should not be added to contract price, since these tables are for O&M training prospective for EDL Staff.

**Q27:** Section IV: Bidding Forms, Table 2A and 2B (Pages 114–117, 132–136):

Kindly provide detailed scope of work under Tables 2A and 2B (Scheduled Maintenance for Zahrani and Deir Amar).

**A27:** Please refer to Answers "A3", "A5" and "A7" mentioned above.

**Q 28:** Section V: Schedule of Requirements, Clause 2.2.1 Initial Services (Page 161):

Tender Quote: Within 90 days furnish a GT blades replacement/refurbishment program for the whole Contract period;

**Questions:**

In order to provide the above-mentioned program, please provide the following:

- Remaining lifetime of the Blades and Vanes currently installed in the GTs.
- Remaining lifetime of the sets of Blades and Vanes available in stores.
- Please confirm if either EDL or the existing contractor has any pending order for Blades and Vanes with the OEM of the gas turbines Ms/ Siemens that will be delivered to the plants prior to the commencement of the new 5-year contract which can be used during the new contract period.
- Please specify the responsible party (Contractor or EDL) for the replacement of any Blades and Vanes declared scrap by the OEM at any time during the new 5-year Contract Period.

**A 28:** Please below the following:

- Please refer to file "blades cycle" in the attached CD.
- Please refer to file "blades cycle" in the attached CD.
- Refurbishment of stages 1&2 removed for Gas Turbines during the Major Overhauls done by the current operator are part of the scope of work of the current operator.

In addition to six sets of blades and vanes stage 1&2 mentioned in file “blades cycle” of the attached CD, the Owner (EDL) maintains available two (2) brand new sets of Blades and Vanes stage 1&2, the first one set available at the store of Zahrani Power Plant and second one available at the store of Deir Amar Power Plant.

- d- The Owner (EDL) is responsible only for replacement of Blades and Vanes at the end of their lifetimes, as specified by the OEM originally. Replacement of damaged Blades and Vanes during their lifetimes, as specified by the OEM originally, are operator’s responsibilities.

**Q 29:** Section V: Schedule of Requirements, Clause 2.5 Survey of Installations (Page 163):

Please provide an updated list of defects that is expected to be attended by the awarded contractor during the Grace Period.

**A 29:** Please refer to the content of the Tender Documents in this regard, your site visit, the requirements of the Annexes 8.1 & 8.2, and related clarification accordingly.

**Q 30:** Section V: Schedule of Requirements, Clause 2.10.2 Scheduled Maintenance (Page 167):

The Rotor and Casing Inspection Evaluation (RCIE) for Gas Turbines will be carried out at the first Due-Major Overhaul for each unit in the presence and under supervision of the pertinent OEM.

**Question:**

Many major components similar to the ones listed in Section 33 in Bill of Quantities will be required for the RCIE. All these items have very long lead time reaching up to 24 months and will not be available for the first scheduled Major Inspections and they are not listed in the list of available parts in plants store.

- a) Please confirm if either EDL or the existing contractor has any pending orders for any of these major components.
- b) Please provide a listing of these components under order and their expected delivery dates.

**A 30:** Please find below the list of capital spare parts related to the RCIE of one Gas Turbine at Deir Amar CCPP, which has been ordered from the OEM by the current Operator:

S.No	Siemens Material PB	Description	Qty	Unit
1	PB0000246814	COMPRESSOR DISC 13	1	PC
2	PB0000214644	COMPRESSOR BLADE STG 13	65	PC
3	PG0036134201	COMPRESSOR DISC 14	1	PC
4	PB0000214645	COMPRESSOR BLADE STG 14	79	PC
5	PG0036134301	COMPRESSOR DISC 15	1	PC
6	PB0000214646	COMPRESSOR BLADE STG 15	79	PC
7	PB0000222372	CENTER HOLLOW SHAFT	1	PC
8	PG0036843100	TURBINE DISC 1	1	PC
9	PG0036843200	TURBINE DISC 2	1	PC
10	PG0036843300	TURBINE DISC 3	1	PC

11	PG0036862400	TURBINE DISC 4	1	PC
12	P0044033600	INNER CASING, ARRANGEMENT	1	PC
13	P0087946200	MIXING CASING, SILO COMBUSTOR	2	PC
14	PB0000221105	TILE HOLDER	72	PC
15	PB0000221109	TILE HOLDER	72	PC
16	PB000001491	TILE HOLDER	456	PC
17	PB0000002065	TILE HOLDER	144	PC
18	PB0000219742	TILE HOLDER	144	PC
19	PB0000002067	TILE HOLDER	24	PC
20	PB0000000824	TILE HOLDER	24	PC
21	P0012641100	SEAL RING 4, TURBINE, SET	1	PC
22	P0007921100	SEPARATION TUBE, COOLING AIR, ROTOR	1	PC
23	P0007132500	ANTI-ROTATION PIN	2	PC
24	P0046542900	TURBINE RING 1, MACHINING	1	PC
25	P0007132500	ANTI-ROTATION PIN	2	PC
26	P0046543300	TURBINE RING 2, MACHINING	1	PC
27	P0007132500	ANTI-ROTATION PIN	2	PC
28	P0046543500	TURBINE RING 3, MACHINING	1	PC
29	P0046544400	TURBINE RING 4, MACHINING	1	PC
30	P0007132500	ANTI-ROTATION PIN	2	PC
31	PG0031463200	T-VANE 3 FINAL PART	20	PC
32	PG0031463100	T-VANE 3 FINAL PART	5	PC
33	PG0031463200	T-VANE 3 FINAL PART	21	PC
34	PG0031463300	T-VANE 3 FINAL PART	5	PC
35	PG0031466000	T-BLADE 3 FINAL PART	62	PC
36	PG0031466100	T-BLADE 3 FINAL PART	1	PC
37	PG0031468500	T-VANE 4 FINAL PART	23	PC
38	PG0031468600	T-VANE 4 FINAL PART	5	PC
39	PG0031468700	T-VANE 4 FINAL PART	22	PC
40	PG0031468800	TURBINE WHEEL 4, ASSEMBLY	5	PC
41	PG0031466200	T-BLADE 4 FINAL PART	44	PC
42	P0000137000	BURNER, FUEL OIL	16	PC
43	P00499925	HEXAGON NUT	96	PC
44	PB0000000441	DISK - KANBAN	96	PC
45	PG0031513700	BALANCING WEIGHT	80	PC
46	P0021385800	LOCKING PIN	36	PC
47	P0018583900	SPRING ELEMENT	40	PC
48	P00315661	Package for Dismantling of existing LPH	1	PC
49	P00313476 PG003004000 PG003004100 PG003004200 PG0041057400	Package for Fuel Gas Skid	1	PC
50	P00313472	Package for High Pressure Hydraulic Skid	1	PC
51	P00275189	Package for Modification in front pipe rack	1	PC

52	P00274285	Package for New Fuel Gas Piping	1	PC
53	P00271446	Package for Hydraulic Lines	1	PC
54	P00275546 P00320330	Package for New Fuel Oil valves & Piping	1	PC
55	—	Engineering, I&C and designing solution for GT11 & GT12	1	L/S

**Q 31:** Section V: Schedule of Requirements, Maintenance Records:

Kindly provide latest OEM Major and Minor Maintenance Reports for Gas Turbine, Steam Turbine, and Generators.

**A 31:** You will find in the attached CD the requested data relate to the latest OEM Major and Minor Maintenance Reports for Gas Turbine, Steam Turbine, and Generators.

**Q 32:** Section V: Schedule of Requirements, Maintenance Records:

Kindly provide the Maintenance Reports for the plant auxiliaries for the last five years.

**A 32:** You will find in the attached CD the requested data relate to the Maintenance Reports for the plant auxiliaries for the last five years.

**Q 33:** Section V: Schedule of Requirements, HSE Regulations:

Kindly confirm the compliance of the current emissions with the existing environmental regulations.

**A 33:** The Operator should respect the Terms and condition of the Tender Documents, mainly Clause “2.14” of Section V: Schedule of requirements.

**Q 34:** Section V: Schedule of Requirements, Clause 2.2.1 Initial Services (Page 161):

Kindly provide the duration of mobilization period during which the contractor shall transfer the manpower to site, prepare site offices, make the required tools, consumables, and equipment available on site prior to the commencement of contract.

**A 34:** Kindly find below the obligations of the current Operator in this concern, according to clause 2.7 of the condition of O&M contract with the current operator:

*“ Co-Operation with Successor Operator: The Operator shall, during the last three (3) months of the Term, provide access to the Facilities for the representative of any potential successor operator authorized to inspect the Facilities by the Owner. If the Owner enters into an agreement with a successor operator to become effective following termination of this Contract, the Operator shall, during the last three (3) months of the Term (or any shorter period following execution of such successor operator agreement), provide the successor operator and its representatives with full access to the Facilities and all documents, records, data and other information in whatever form (with the exception of those properties to the Operator or dealing solely with the Operator's employees) in the Operator's possession, custody or power which are relevant to the continued operation and maintenance of the Facilities in accordance with the relevant performance standards and obligations under this Contract after the expiry of the Term.”*

## Content of the attached CD

### 1- Zahrani & Deir Amar CCPPs:

One Excel file, for History of Blades and Vanes Cycle.

### 2- Zahrani CCPP:

#### a) **Annual reports – Zahrani CCPP:**

Five PDF files for O&M yearly reports for years: 2020, 2021, 2022, 2023 and 2024.

#### b) **Last Inspection Reports – Zahrani CCPP:**

##### **GT11 MO 2024:**

- Four PDF files for GT11 Major Overhaul.
- One PDF file for GT11's Generator Major Overhaul.

##### **GT12 MO 2023:**

- Four PDF files for GT12 Major Overhaul.
- Two PDF files for GT12's Generator Major Overhaul.

##### **Steam Turbine:**

- One PDF file for ST Major Overhaul year 2019.
- One PDF file for ST B-Inspection year 2025.

##### **Steam Turbine Generator M.O 2019:**

- Five PDF Files for Steam Turbine Generator M.O 2019.

#### c) **History of GTs, ST, and related Generators:** One Excel file for history all Major Overhauls and Minor Inspections for the main units.

### 3- Deir Amar CCPP:

#### a) **Annual reports – Deir Amar CCPP:**

Five PDF files for O&M yearly reports for years: 2021, 2022, 2023, 2024 and 2025.

#### b) **Last Inspection Reports – Deir Amar CCPP:**

##### **Major Overhauls:**

- One PDF file for GT11 Major Overhaul and GT11's Generator M.O. year 2021.
- One PDF file for GT12 Major Overhaul year 2025.
- One PDF file for GT12's Generator Major Overhaul year 2025.
- One PDF file for Steam Turbine Major Overhaul (Nov. 2022 – Jan. 2023).
- One PDF file for ST Generator Major Overhaul year 2023.

##### **Minor Inspections:**

- GT11 and GT12 Minor Inspection report 2024.
- GT11 Minor Inspection report 2025.
- ST Minor Inspection report 2018.

#### c) **Inspection Record 2021-2025:** One PDF file for Inspection Records from 01/01/2021 till 16/02/2026.





**A- FOR Zahrani POWER PLANT:**

Contract Price and Currency (exclusive of VAT) \_\_\_\_\_

(figures) \_\_\_\_\_

or such other sum as may be determined in accordance with the said conditions.

(Hereinafter called "the Contract Price") for Operation and Maintenance of all of the facilities of the Zahrani combined cycle power plant.

VAT Amount (Price and Currency) \_\_\_\_\_

(figures) \_\_\_\_\_

Contract Price and Currency (inclusive of VAT) \_\_\_\_\_

(figures) \_\_\_\_\_

or such other sum as may be determined in accordance with the said conditions.



TAB 7B

**BILL OF QUANTITIES FOR OPERATION AND MAINTENANCE  
OF THE DEIR-AMAR COMBINED CYCLE POWER PLANT**

Item	DESCRIPTION	TOTAL PRICE EXCLUDING VAT (CURRENCY)	VAT (CURRENCY)	TOTAL PRICE INCLUDING VAT (CURRENCY)
I	Main staff for complete combined cycle mode (as per Table 1B)			
II	MAINTENANCE SERVICES (as per Table 2B)			
III	SPARE PARTS, CONSUMABLES AND TOOLS (as per Table 3B)			
IV	AUXILIARY AND MISCELLANOUS SERVICES (as per Table 4B)			
VI	OTHERS (as per Table 6B)			
	<b>TOTAL FOR DEIR AMAR POWER PLANT</b>			

Handwritten signature and symbols, including a dollar sign and a circular mark.